



SDI Review Form 1.6

Journal Name:	<u>International Journal of TROPICAL DISEASE & Health</u>
Manuscript Number:	Ms_IJTDH_31322
Title of the Manuscript:	Influence of substituents nature on the antiplasmodial and cytotoxic activities of 5-chloro-3,4-dihydro-1H-pyrano[3,4-b]-1,10-phenanthrolinone as antimalarial agent
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



SDI Review Form 1.6

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	Results Table 1, Line 169: The following correction should be made - The table should have additional row on top, which will separate/indicate the column for antiparasmodial studies from the last column of cytotoxic study. - In footnote to the table the number of replicates for each sample should be stated i.e n=3, 4 or 5. - Are the values written as Mean $\pm$ SEM ?. Author needs to maintain uniformity in decimal places for all the values - Compound 5 and 9 with '00' SEM, does it mean that all replicates have the same/equal value i.e values are not different from the mean? - Are the values under the antiparasmodial activity representing the number of hypoxanthine incorporated or calculated using a formula? (state the formula used to obtain these values) - Is it possible to have a 'control sample' on this table (in this study) in order to compare the significance of the test samples result? - What does NT (Non tested) implies? Does it mean 'zero' HeLa cells? Table 2, Line 173: Author needs to maintain uniform	i-I really don't understand what the reviewer want to say here. ii- The correction was make, n=3 iii-All values have been corrected by uniforming the decimals iv- this is a mistake, after recalculating the results, we found 2.70 and 4.23 SEM for respectively compounds 5 and 9 v- After calculation of the inhibition concentration, excel software was used to determine the IC50 vi- We did not use a control because we simply wanted to see if the substituents used increased or decreased the activity of compound 2 vii-Yes, the parasitology laboratory which carried out the tests did not have sufficient HeLa cell line to test all compounds



SDI Review Form 1.6

	decimal places (13,26 or 13.26??) Line 183:---compounds 2 presented the most interesting antimalarial activities. The above line should be rephrased to state categorically if sample 2 is the most active or least active. How does sample 2 anti-plasmodial activity relates to sample 9 activity. Line 192: --these two compounds had <u>more interesting</u> activities--- The above line should be rephrased to --these two compounds have more significant activities----	Table 2. the decimals values are corrected The 13,26 value was rewritten in 13.26 Line 183. The sentence was rephrased Line 192. The correction has been made
<u>Minor</u> REVISION comments	Abstract: OK Introduction Line 27-30: Author may need to review the statement in this paragraph to reflect the more recent 2016 world malaria report, (http://www.who.int/entity/malaria/publications/world-malaria-report-2016/report/en/index.html) Line 58: Rephrase ---and its of its analogs obtained----- Materials and Methods Line 74: Rephrase-- All reagents were used as supplied commercially----- Author need to clarify this opening statement that --all reagents were used as supplied commercially. Conclusion Line 229-230: Needs to rephrase the statement for clarity of expression. Line 231: --- new antimalarial support., Could rephrase as ---- new antimalarial activity.	L27-30- the statement was reviewed according to the 2016 word malaria report L58- sentence was corrected L74- Sentence was rewritten Line 229-230-the sentence has been reworted L231- the suggestion was taken into account
<u>Optional/General</u> comments		